

Figure 1

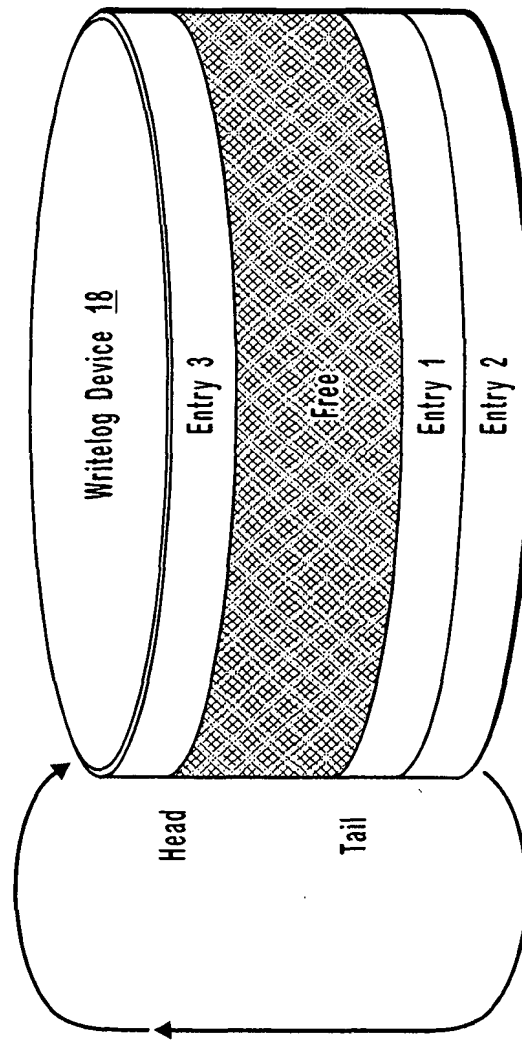


Figure 2

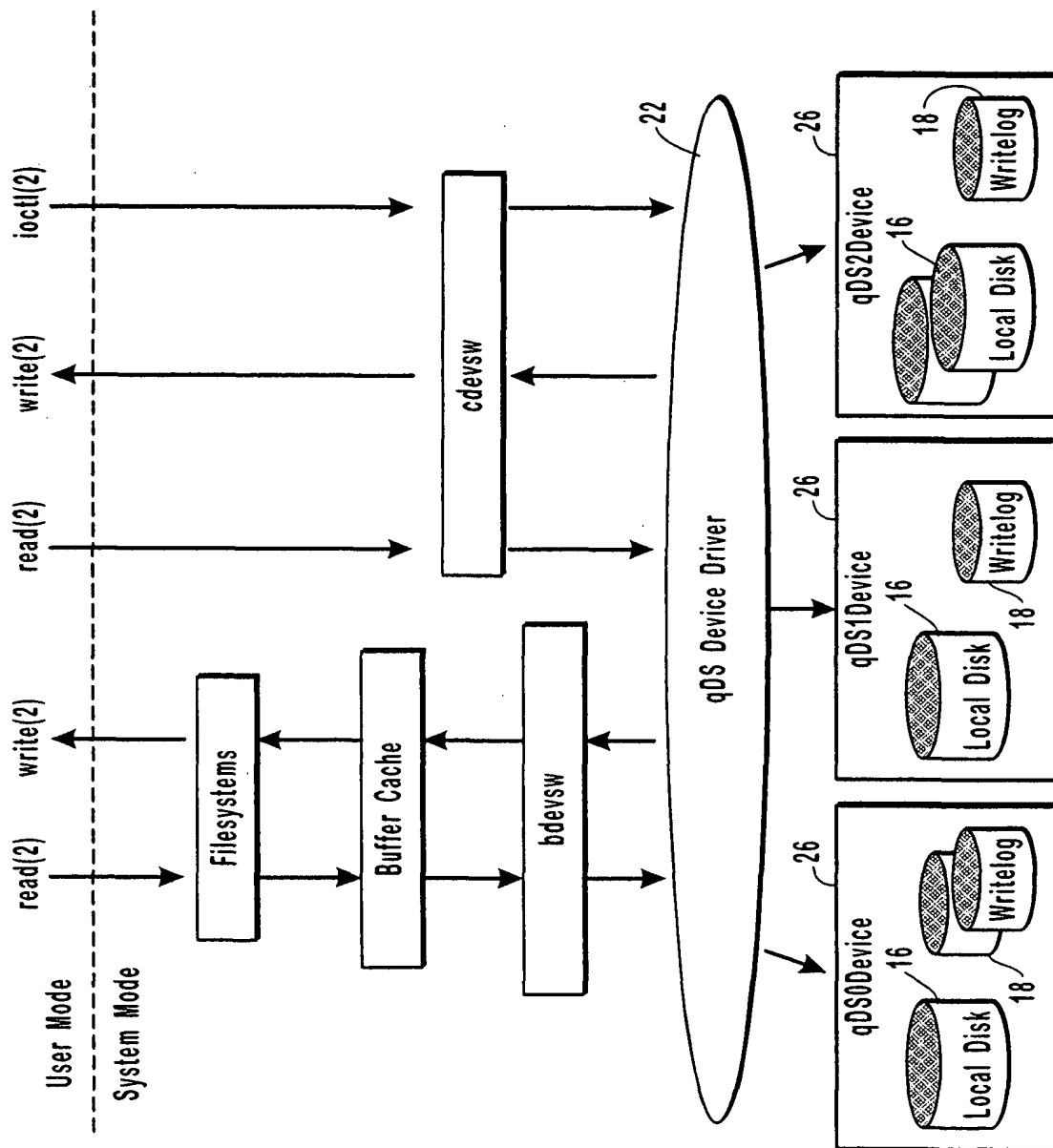


Figure 3

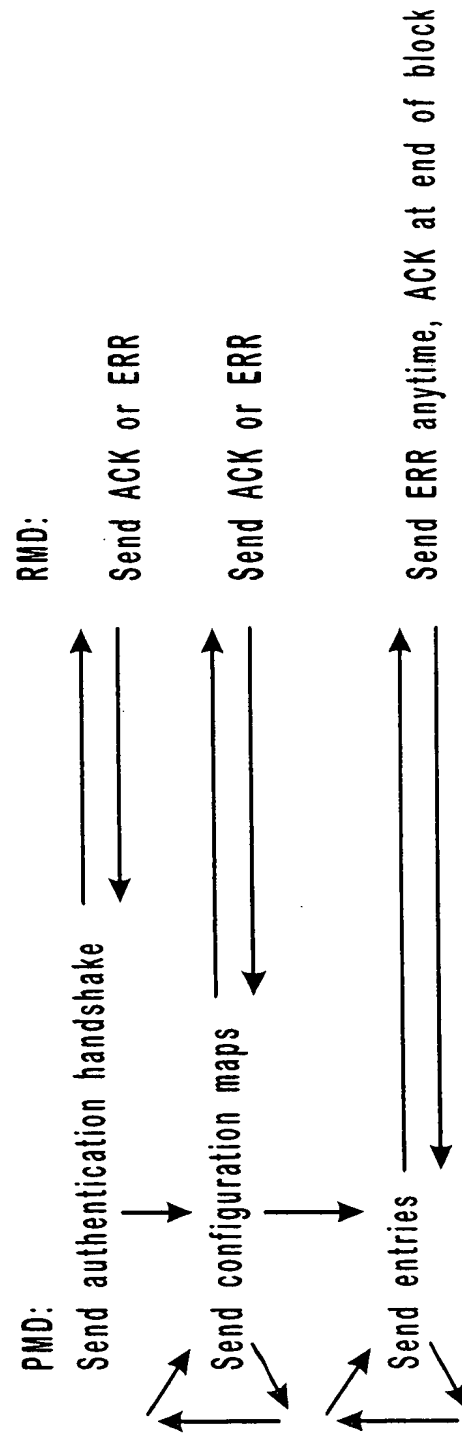


Figure 4

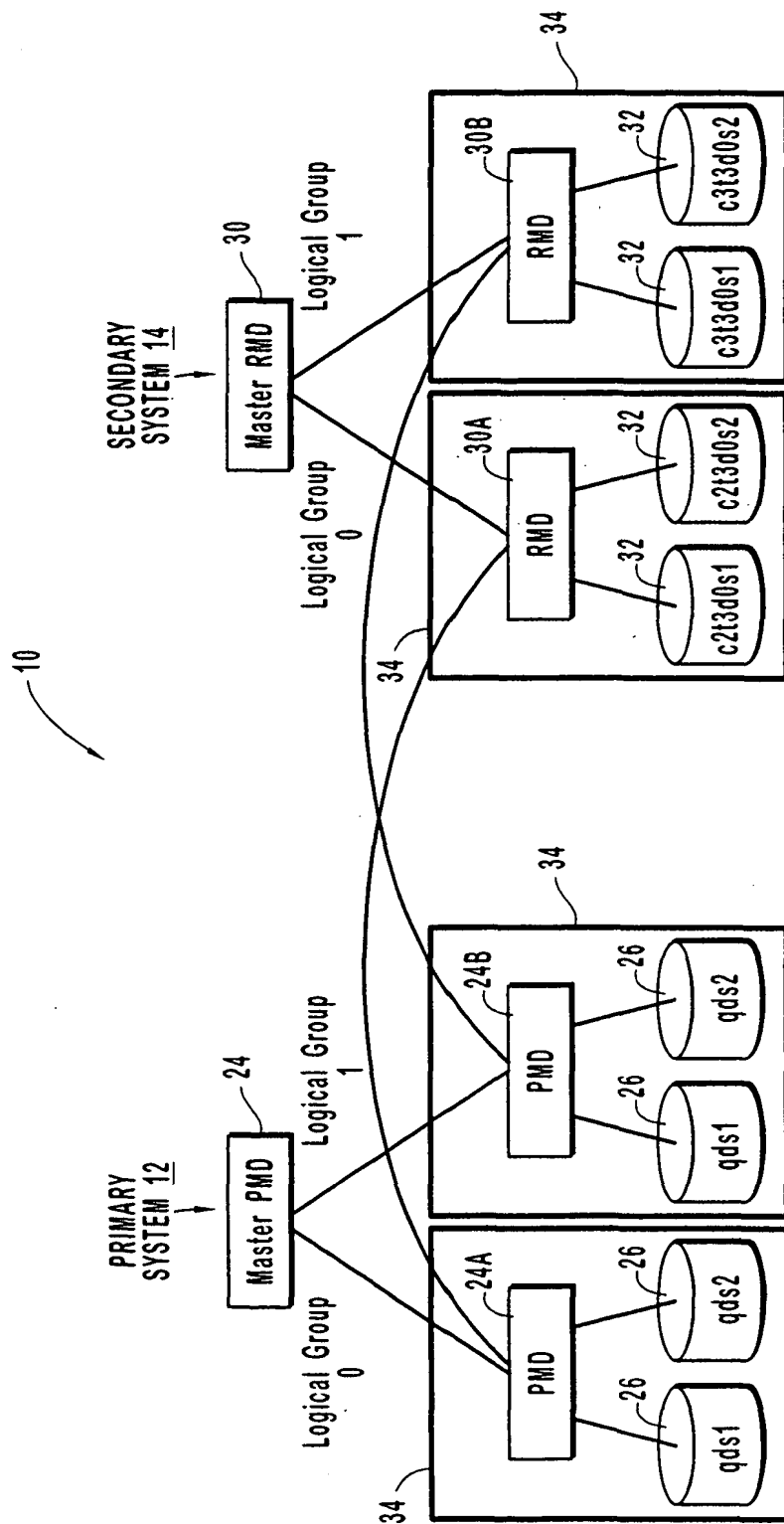


Figure 5

File

DataStor Configuration Editor -- Logical Group 6

Systems

qds Devices

Throttles

Tunable Parameters

Notes

Decline or Edit Throttles for this Logical Group

Throttles Defined:

Evaluate Only From:

To:

Throttle Test:

Value:

Actions for Throttle:

Do What:

Arguments:

New

Commit

Delete

Reset

Figure 6

The screenshot shows the 'DataStor Configuration Editor -- Logical Group 6' window. The 'Throttles' tab is selected, displaying a table of throttles. A context menu is open over the table, showing a list of actions: 'netkbps', 'pctcpu', and 'pctw'. The context menu has buttons for 'New', 'Commit', 'Delete', and 'Reset'. The main window has buttons for 'New', 'Commit', 'Delete', and 'Reset' at the bottom.

Throttles Defined:	Evaluate Only From:	To:	Value:	Throttle Test:

Decline or Edit Throttles for this Logical Group

Actions for Throttle:

Do What:

Arguments:

netkbps
pctcpu
pctw

New Commit Delete Reset

New Commit Delete Reset

Figure 7

File

DataStor Configuration Editor -- Logical Group 6

Systems

qds Devices

Throttles

Tunable Parameters

Notes

Decline or Edit Throttles for this Logical Group

Throttles Defined:

Evaluate Only From:

To:

Throttle Test:

Value:

Actions for Throttle:

Do What:

New

Commit

Delete

Reset

Arguments:

New

Commit

Delete

Reset

Figure 8

DataStor Configuration Editor -- Logical Group 6

File

Systems qds Devices Throttles Turntable Parameters Notes

Decline or Edit Throttles for this Logical Group

Throttles Defined:

Evaluate Only From: To:

Throttle Test: Value:

Actions for Throttle:

Do What:

Arguments:

set sleep
incr sleep
decr sleep
set writedelay
incr writedelay
decr write delay
do console

New Commit Delete Reset

New Commit Delete Reset

Figure 9

```

THROTTLE 08:00:00 18:00:00 netkbps T>= 200
ACTIONLIST
ACTION: set sleep 15000
ACTION: do console Net traffic exceeded 200KBps (now %%KBPS%%KBps)
ACTION: do console Slowing PMDs for logical group %%GROUPNO%% (sleep now %%SLEEP%%ms)
ACTION: do mail root Net traffic exceeded 200KBps (now %%KBPS%%KBps, sleep now %%SLEEP%% usecs)
ACTION: do exec /home/dave/bin/wally Net traffic exceeded 200KBps (now %%KBPS%%KBps, sleep now %%SLEEP%%
usecs)
ENDACTIONLIST

THROTTLE 08:00:00 18:00:00 netkbps > 300
ACTIONLIST
ACTION: incr sleep 5000
ACTION: do console Net traffic high (%%KBPS%%KBps)
ACTION: do console Slowing PMDs for logical group %%GROUPNO%% (sleep now %%SLEEP%% usecs)
ACTION: do mail root Net traffic high: now %%KBPS%%KBps, (sleep now %%SLEEP%% usecs)
ENDACTIONLIST

THROTTLE 08:00:00 18:30:00 netkbps T < 175
ACTIONLIST
ACTION: decr sleep 5000
ACTION: do console Net traffic slowing. Now %%KBPS%%KBps
ACTION: do console Speeding up PMDs for logical group %%GROUPNO%% (sleep now %%SLEEP%% usecs)
ACTION: do mail root Net traffic slowing. Now %%KBPS%%KBps, (sleep now %%SLEEP%% usecs)
ENDACTIONLIST

THROTTLE 08:00:00 18:00:00 netkbps < 150
ACTIONLIST
ACTION: decr sleep 15000
ACTION: do console Net traffic low (%%KBPS%%KBps). Sleep set to %%SLEEP%% usecs.
ENDACTIONLIST

THROTTLE 18:31:00 23:59:59 netkbps < 500
ACTIONLIST
ACTION: set sleep 0
ENDACTIONLIST

THROTTLE 00:00:00 07:59:59 netkbps < 500
ACTIONLIST
ACTION: set sleep 0
ENDACTIONLIST

```

Figure 10

Entries Placed in WriteLog:

ADDRESS:	Block 1	Block 2	Block 1	Block 3
DATA:	\$10,000	Current Salary is in "Block 1"	("Block 1"x1.07) \$10,700	Salary after Raise is "Block 1"
TIME:	01:01	01:02	01:03	01:04

What is written to the mirror disk?

Chronologic Coherency Method:

Block 1: \$10,000
Block 2: Current Salary is "Block 1"
Block 1: \$10,700
Block 3: Salary after Raise is "Block 1"

Read from Data Disk Method:

Block 1: \$10,700
Block 2: Current Salary is "Block 1"
Block 1: \$10,700
Block 3: Salary after Raise is "Block 1"

Figure 11

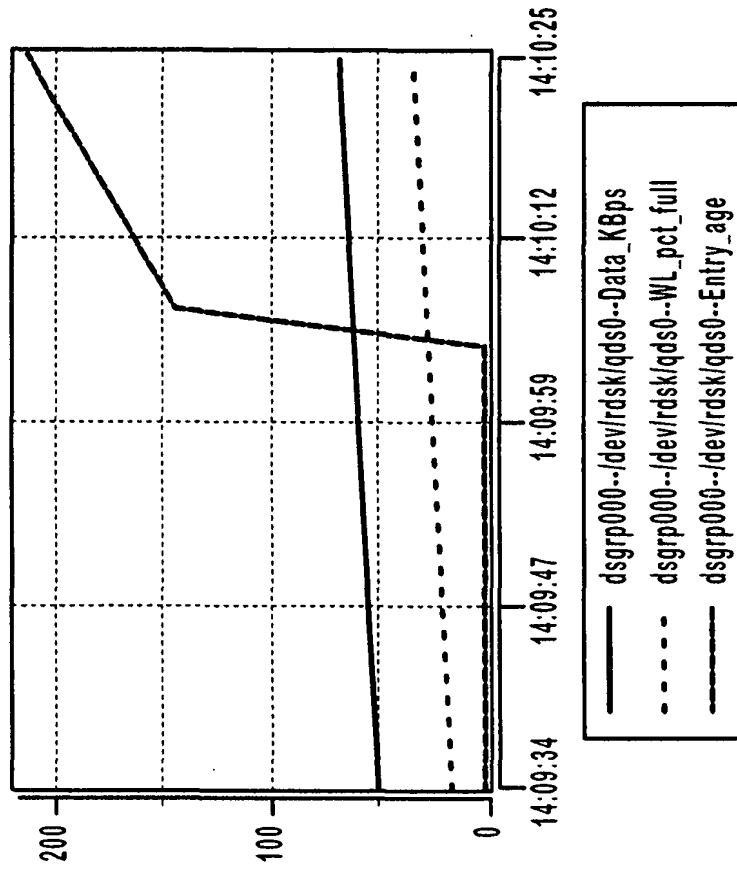


Figure 12